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5	BRS	L5	14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	((virtual adj machines) or (emula\$3 same OS)) and (IEEE-1394)	2007/03/20 16:40

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6	BRS	L8	533	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	((virtual adj machines) or (emula\$3 same OS)) and infrared	2007/03/20 16:40
7	BRS	L9	43	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	((virtual adj machines) or (emula\$3 same OS)) and infrared and "802.11b"	2007/03/20 16:41
8	BRS	L10	533	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	((virtual adj machines) or (emula\$3 same OS)) and infrared	2007/03/20 16:42
9	BRS	L11	160	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	((virtual adj machines) or (emula\$3 same OS)) and infrared and (host same computer)	2007/03/20 16:49
10	BRS	L12	19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	((virtual adj machines) or (emula\$3 same OS)) and "802.11" and (host same computer)	2007/03/20 16:50



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8	BRS	L8	0	US-PGPUB; USPAT; USOCR	(operating adj system adj emula\$3) and (host same computer) and (WLAN)	2007/03/20 12:57
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181 [Composable ad hoc location-based services for heterogeneous mobile clients](#)

Todd D. Hodes, Randy H. Katz

 October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

 Full text available: pdf(403.18 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


182 [Mobile computing in outdoor environments \(extended abstract\)](#)

Massimo Ancona, Gabriella Doderò, Vittoria Gianuzzi

 February 1999 **Proceedings of the 1999 ACM symposium on Applied computing SAC '99**

Publisher: ACM Press

 Full text available: pdf(407.86 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


183 [Fast and scalable wireless handoffs in supports of mobile Internet audio](#)

Ramón Cáceres, Venkata N. Padmanabhan

 December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

 Full text available: pdf(187.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Future internetworks will include large numbers of portable devices moving among small wireless cells. We propose a hierarchical mobility management scheme for such networks. Our scheme exploits locality in user mobility to restrict handoff processing to the vicinity of a mobile node. It thus reduces handoff latency and the load on the internetwork. Our design is based on the Internet Protocol (IP) and is compatible with the Mobile IP standard. We also present experimental results for the I ...

184 [Every picture tells a story: learning to look at space scientific data images](#)

George Tuthill, Stephanie Stevenson

 November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '98**

Publisher: IEEE Computer Society

 Full text available: html(20.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#)


Understanding scientific image data requires us to connect two-dimensional images to three-dimensional reality. Our knowledge of space science changes as our skill for seeing what is in the night sky increases. With eyes as their only tools, early people surveyed the skies, telling stories to explain what they observed. For centuries humankind studied the sky adding new perceptions to the old. The advent of telescopes provided even better means of observation. This clearer sight contributed to a ...

Keywords: K-12, NASA, astronomy, national science standards, scientific image data, visualization

185 Informative things: how to attach information to the real world



Rob Barrett, Paul P. Maglio

November 1998 **Proceedings of the 11th annual ACM symposium on User interface software and technology UIST '98**

Publisher: ACM Press

Full text available: pdf(54.72 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: cooperative work, networked information, physical user interface

186 VISA: Netstation's virtual Internet SCSI adapter



Rodney Van Meter, Gregory G. Finn, Steve Hotz

October 1998 **ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , Proceedings of the eighth international conference on Architectural support for programming languages and operating systems ASPLOS-VIII, Volume 32 , 33 Issue 5 , 11**

Publisher: ACM Press

Full text available: pdf(1.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we describe the implementation of VISA, our Virtual Internet SCSI Adapter. VISA was built to evaluate the performance impact on the host operating system of using IP to communicate with peripherals, especially storage devices. We have built and benchmarked file systems on VISA-attached emulated disk drives using UDP/IP. By using IP, we expect to take advantage of its scaling characteristics and support for heterogeneous media to build large, long-lived systems. Detailed file system ...

187 A scalable wireless virtual LAN

Zhao Liu, Malathi Veeraraghavan, Kai Y. Eng

September 1998 **Mobile Networks and Applications, Volume 3 Issue 3**

Publisher: Kluwer Academic Publishers

Full text available: pdf(300.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a Wireless Virtual Local Area Network (WVLAN) to support mobility in IP-over-ATM local area networks. Mobility is handled by a joint ATM-layer handoff for connection rerouting and MAC-layer handoff for location tracking, such that the effects of mobility are localized and transparent to the higher-layer protocols. Different functions, such as Address Resolution Protocol (ARP), mobile location, and ATM connection admission are combined to reduce protocol overhead and from ...

188 Low-loss TCP/IP header compression for wireless networks

Mikael Degermark, Mathias Engan, Björn Nordgren, Stephen Pink

October 1997 **Wireless Networks, Volume 3 Issue 5**

Publisher: Kluwer Academic Publishers

Full text available:  pdf(534.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless is becoming a popular way to connect mobile computers to the Internet and other networks. The bandwidth of wireless links will probably always be limited due to properties of the physical medium and regulatory limits on the use of frequencies for radio communication. Therefore, it is necessary for network protocols to utilize the available bandwidth efficiently. Headers of IP packets are growing and the bandwidth required for transmitting headers is increasing. With the coming of I ...

189 Composable ad-hoc mobile services for universal interaction

 Todd D. Hodes, Randy H. Katz, Edouard Servan-Schreiber, Lawrence Rowe
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking MobiCom '97**

Publisher: ACM Press

Full text available:  pdf(1.86 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

190 A control and management network for wireless ATM systems

Stephen F. Bush, Sunil Jagannath, Ricardo Sanchez, Joseph B. Evans, Gary J. Minden, K. Sam Shanmugan, Victor S. Frost
September 1997 **Wireless Networks**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(573.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the design of a control and management network (orderwire) for a mobile wireless Asynchronous Transfer Mode (ATM) network. This mobile wireless ATM network is part of the Rapidly Deployable Radio Network (RDRN). The orderwire system consists of a packet radio network which overlays the mobile wireless ATM network. Each network element in this network uses Global Positioning System (GPS) information to control a beamforming antenna subsystem which provides for spatial re ...

191 Microsoft Windows CE: a new handheld computing platform

 Robert O'Hara
April 1997 **Proceedings of the 1997 ACM symposium on Applied computing SAC '97**

Publisher: ACM Press

Full text available:  pdf(196.18 KB) Additional Information: [full citation](#), [index terms](#)

Keywords: PDA, handheld PC, mobile computing, windows CE

192 WorldBeat: designing a baton-based interface for an interactive music exhibit


 Jan O. Borchers
March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '97**

Publisher: ACM Press

Full text available:  pdf(963.21 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: baton, education, interactive exhibit, interface design, music

193 Low-loss TCP/IP header compression for wireless networks

 Mikael Degermark, Mathias Engan, Björn Nordgren, Stephen Pink
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking MobiCom '96**

Publisher: ACM Press

Full text available:  pdf(1.51 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

194 Fast and scalable handoffs for wireless internetworks

 Ramón Cáceres, Venkata N. Padmanabhan
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking MobiCom '96**

Publisher: ACM Press

Full text available:  pdf(1.35 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

195 Evaluation of TCP Vegas: emulation and experiment

 Jong Suk Ahn, Peter B. Danzig, Zhen Liu, Limin Yan
October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper explores the claims that TCP Vegas [2] both uses network bandwidth more efficiently and achieves higher network throughput than TCP Reno [6]. It explores how link bandwidth, network buffer capacity, TCP receiver acknowledgment algorithm, and degree of network congestion affect the relative performance of Vegas and Reno.

196 Pen computing: a technology overview and a vision

 André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available:  pdf(5.14 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

197 Contents of the Computer Communication Review 1970–1994

 David Oran
January 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 1

Publisher: ACM Press

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198 There's gold in them thar networks! or searching for treasure in all the wrong places

 Jerry Martin
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6	BRS	L7	8	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	((virtual adj machines) or (emula\$3 same OS)) and (IEEE-1394) and infrared and usb	2007/03/20 16:37
7	BRS	L6	8	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	((virtual adj machines) or (emula\$3 same OS)) and (IEEE-1394) and infrared	2007/03/20 16:38

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1	BRS	L1	0	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	(virtual adj machine) same IEEE-1394	2007/03/20 16:33
2	BRS	L2	29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	(virtual adj machine) AND IEEE-1394	2007/03/20 16:33
3	BRS	L3	229	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	(virtual adj machine) and (firewire or IEEE-1394)	2007/03/20 16:34
4	BRS	L4	249	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	((virtual adj machine) or (emula\$3 same OS)) and (firewire or IEEE-1394)	2007/03/20 16:35
5	BRS	L5	14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	((virtual adj machines) or (emula\$3 same OS)) and (IEEE-1394)	2007/03/20 16:37